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NPIC/R-498/64

June 1964

[REDACTED] PHOTOGRAFIC INTERPRETATION REPORT

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OAK - PART II
MISSION 1007-1
20-23 JUNE 1964



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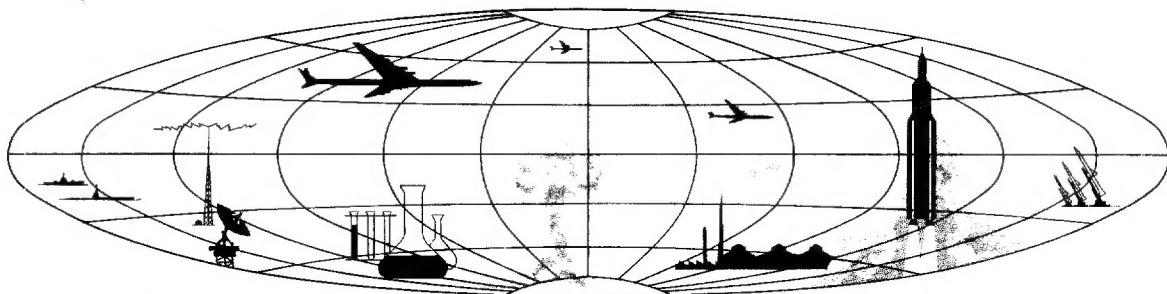
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WARNING

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NATIONAL PHOTOGRAPHIC INTERPRETATION CENTER



Declassification Review by
NIMA/DoD

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GROUP I
Excluded from automatic
downgrading and declassification

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OAK-PART II

MISSION 1007-1

PREFACE

THIS IS THE SECOND AND LAST DAILY OAK REPORT ON MISSION 1007-1 DEALING WITH THE HIGHEST PRIORITY INTELLIGENCE ITEMS APPEARING IN THE COMOR TARGET LIST. THIS REPORT, COVERING THE OAK REPORTING PERIOD FROM 1500 HOURS 28 JUNE 1964 TO 1700 HOURS, 29 JUNE 1964 PRESENTS INFORMATION ONLY ON THOSE COMOR TARGETS OBSERVED ON THE PHOTOGRAPHY. COMOR TARGETS OBSERVED ON MISSION 1007-1 ARE LISTED IN THE INDEX OF THIS REPORT.

TARGETS ARE ARRANGED IN THE OAK BY SUBJECT, AND WITHIN EACH SUBJECT BY COMOR TARGET NUMBER. TARGETS OF OPPORTUNITY OBSERVED DURING THE OAK REPORTING PERIOD ARE LISTED NUMERICALLY UNDER THE APPROPRIATE SUBJECT AFTER THE LISTING OF COMOR TARGETS. LOCATION OF TARGETS IN THIS REPORT IS INDICATED BY THE COUNTRY CODE PRECEDING THE COORDINATES.

SELECTED PHOTOGRAPHIC REFERENCES FOR EACH TARGET OBSERVED AND REPORTED FOLLOW THE DESCRIPTION OF THE TARGET. PASS NUMBERS ARE SUFFIXED WITH EITHER AN A FOR ASCENDING (SOUTH-TO-NORTH) OR D FOR DESCENDING (NORTH-TO-SOUTH). FRAMES ARE INDICATED BY THE LETTERS FR. THE LETTER F PRECEDING FRAME NUMBERS INDICATES THE FORWARD CAMERA AND THE LETTER A PRECEDING FRAME NUMBERS INDICATES THE AFT CAMERA. UNIVERSAL REFERENCE GRID (X-Y) COORDINATES ARE GIVEN IN PARENTHESIS AFTER THE FRAME TO WHICH THEY APPLY. THIS GRID IS IDENTIFIED AS UNIVERSAL GRID NO 1, FEB 64. SYMBOLS INDICATING CONDITIONS WHICH AFFECT THE APPEARANCE OF THE TARGET ON THE PHOTOGRAPHY ARE AS FOLLOWS -- C (CLEAR), SC (SCATTERED CLOUD COVER), HC (HEAVY CLOUD COVER), H (HAZE), CS (CLOUD SHADOW), SD (SEMDARKNESS), O (OBLIQUITY), S (SNOW), PQ (POOR IMAGE QUALITY).

OAK RECIPIENTS ARE CAUTIONED THAT THE INITIAL SCAN OF THE PHOTOGRAPHY FROM MISSION 1007-1 IS BEING ACCOMPLISHED IN A SHORT TIME AND OFTEN WITHOUT THE AID OF PRECISE ANALYTICAL AND MENSURAL EQUIPMENT COMMONLY EMPLOYED IN DETAILED PHOTOGRAPHIC ANALYSIS. CONSEQUENTLY, ALTHOUGH THE INFORMATION PRESENTED HEREIN IS ESSENTIALLY ACCURATE, FUTURE DETAILED ANALYSIS MAY SOMEWHAT ALTER PORTIONS OF THE INFORMATION.

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Highlights

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HIGHLIGHTS

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1. YOSHKAR-OLA ICBM COMPLEX ([REDACTED]

A PROBABLE COMMUNICATIONS-ASSOCIATED FACILITY IS NEWLY IDENTIFIED. IT CONTAINS A SUPPORT AREA, PROBABLE CONTROL BUILDING, AND A PROBABLE FISHBONE ANTENNA ARRAY.

25X1A

2. KOZELSK ICBM COMPLEX [REDACTED]

LAUNCH AREA C IS CONSIDERED ABANDONED AND IS DROPPED FROM THE ICBM OB.

3. MISSILE BONUSES

FIXED FIELD MRBM LAUNCH SITES ARE NEWLY IDENTIFIED 3.7 NM SW OF YAZLOVCHIK, 4 NM SE OF VASILISHKI, AND 4 NM SSE OF SHCHITNO.

25X1A

4. MOSCOW SUSPECT ABM AREA [REDACTED]

ALL SAM INSTALLATIONS IN THE MOSCOW DEFENSE SYSTEM ARE COVERED BY GOOD QUALITY CLOUD-FREE PHOTOGRAPHY OVER 85 PERCENT OF THE SEARCH AREA. NO NEW SARY SHAGAN OR LENINGRAD-TYPE ABM INSTALLATIONS ARE OBSERVED. APPROXIMATELY 75 PERCENT OF THE HERRINGBONE LAUNCH SITES SHOW SIGNS OF ACTIVITY.

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6. MOSCOW, SUSPECT AMM PHASED ARRAY RADAR

CONSTRUCTION CONTINUES ON THE INVERTED V FRAME.

7. TA-TUNG VLF ANTENNA BONUS

A NEWLY IDENTIFIED LARGE RECTANGULAR VLF ANTENNA IS LOCATED 8 NM SOUTH OF TA-TUNG.

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[REDACTED]

STATUS OF COMOR TARGET READOUT

A TOTAL OF 140 COMOR TARGETS WERE OBSERVED IN THE OAK REPORTING PERIOD AND ARE COVERED IN PART I AND PART II.

IN ADDITION, A TOTAL OF 9 BONUS TARGETS ARE REPORTED.

TABULAR SUMMARY

A RECAPITULATION OF SIGNIFICANT ACTIVITY IS PRESENTED IN THE FOLLOWING TABLES ON SUCCEEDING PAGES.

- TABLE 1 -- SOVIET ICBM DEPLOYMENT
- TABLE 2 -- SOVIET MRBM AND IRBM DEPLOYMENT
- TABLE 3 -- SAM AND AMM DEPLOYMENT
- TABLE 4 -- NUCLEAR ENERGY ACTIVITY
- TABLE 5 -- AIRCRAFT ACTIVITY
- TABLE 6 -- SUBMARINE ACTIVITY
- TABLE 7 -- DATE AND TIME OF PHOTOGRAPHIC PASSES

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Table 1. Soviet ICBM Deployment

| Complex | Launch Area | | | | | | | | | | | | Total Soft Sites | Total Hard Sites | Total Launch Positions | Last Effective Coverage |
|------------------|-------------|-----|-----|-------------|-----|-----|-----|-----|-----|-----|-----|------------------|------------------|------------------|------------------------|-------------------------|
| | A | B | C | D | E | F | G | H | I | J | K | | | | | |
| Drovyanaya | (C) | C | C | (C) | M | M | | | | | | | 3 | 3 | 15 | |
| Gladkaya | C | C | E | M | E | | | | | | | | 2 | 3 | 13 | |
| Itatka | C | C | C | | | | | | | | | | 3 | -- | 6 | |
| Kostroma | (C) | (C) | (C) | (C) | (C) | (C) | (C) | (C) | (M) | | | | 6 | 2 | 18 | |
| Kozelsk | (C) | (C) | | (C) | (C) | (L) | | | | | | | 3 | 2 | 12 | |
| Novosibirsk | C | C | (M) | C | C | | | | | | | | 3 | 2 | 12 | |
| Olovyanaya | (C) | M | (M) | | | | | | | | | | -- | 3 | 9 | |
| Omsk | C | E | | | | | | | | | | | -- | 2 | 6 | |
| Perm | C | C | C | C | C | M | | | | | | | 5 | 1 | 13 | |
| Plesetsk* | C | C | C | C | C | | | | | | | | 8 | 1 | 15 | |
| Shadrinsk | (C) | (C) | (L) | | | | | | | | | | -- | 3 | 9 | |
| Svobodnyy | (C) | (C) | (C) | (C) | (C) | (C) | (L) | (C) | | | | | 7 | 1 | 17 | |
| Teykovo | (C) | (C) | (C) | (C) | (C) | (C) | E | | | | | | 7 | -- | 14 | |
| Tyumen | (C) | M | (C) | E (poss) | | | | / | | | | | 3 | 1 (poss) | 9 (3 poss) | |
| Verkhnyaya Salda | C | C | C | C | C | C | C | C | C | | | | 7 | 2 | 20 | |
| Yedrovo | C | C | M | C | C | C | (M) | M | C | | | | 6 | 3 | 21 | |
| Yoshkar-Ola | (C) | (C) | (C) | (C) | (C) | (C) | | | | | | | 6 | -- | 12 | |
| Yurya | (C) | (C) | (C) | (C) | (C) | (C) | (C) | (C) | (C) | (L) | | | 8 | 3 | 25 | |
| Zhangiz Tobe | E | E | | | | | | | | | | | | 2 | 2 | |
| | | | | | | | | | | | | Deployment Total | 77 | 34 (1 poss) | 248 (3 poss) | |
| Tyuratam MTC | (C) | C | C | L | (C) | (C) | (M) | C | M | (M) | (M) | | 13 | 10 (4 poss) | 33 (4 poss) | |
| | | | | | | | | | | | | Grand Total | 90 | 44 (5 Poss) | 281 (7 Poss) | |

*Includes Launch Points I-IV, complete
Construction Status (C-complete, L-late, M-mid, E-early)

Sites covered by current mission

Newly identified sites

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Table 2. Soviet MRBM and IRBM Deployment

| Geographic Area | Soft MRBM Launch Areas | Soft IRBM Launch Areas | Hard MRBM Launch Areas | Hard IRBM Launch Areas | Total Launch Areas | Total Launch Positions |
|-----------------|------------------------|------------------------|------------------------|------------------------|--------------------|------------------------|
| Western | 121 | 11 | 18 | 11 | 161 | 633 |
| Caucasus | 3 | -- | 2 | 3 | 8 | 29 |
| Central Asia | 2 | 3 | 1 | 5 | 11 | 39 |
| Far Eastern | 11 | 1 | -- | 2 | 14 | 54 |
| Totals | 137 | 15 | 21 | 21 | 194 | 755 |

Totals do not include 28 fixed field-type sites with total of 95 clearings and one possible launch facility at Sovetskaya Gavan.

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Table 3. SAM and AMM Deployment

| | Country | | | | | | | | | | | | | | |
|------------------------|---------|---------|----------|----------------|---------|--------|---------|-------|-------------|-----------|-------|------|-------|--------|-------|
| | USSR | Albania | Bulgaria | Czechoslovakia | Hungary | Poland | Rumania | China | North Korea | Indonesia | Egypt | Cuba | India | Totals | |
| SAM sites | | | | | | | | | | | | | | | |
| SA-0 | 15 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 15 |
| SA-1 | 56 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 56 |
| SA-2 | 872* | 1 | 18 | 21 | 42 | 11 | 22 | 12 | 15 | 2 | 4 | 14* | 24** | 1 | 1,059 |
| SA-3 | 88 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 88 |
| SAM support facilities | 178 | 1 | 2 | 4 | 3 | 2 | 3 | 3 | -- | 1 | -- | 3 | 6 | -- | 206 |
| Probable AMM complexes | 3 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 3 |

*Does not include 4 alternate sites

**Does not include 22 abandoned sites.

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| Airfield | Last Coverage | Previous Significant Aircraft Count | | | | | | | | | | | | Observed this Mission | | | | | | | | | | | | | | |
|------------------------|---------------|-------------------------------------|--------|--------|--------|---------|----------|--------|---------|--------|--------|--------|--------|-----------------------|--------|-------|------|--------------|--------|---------|--------------|--------|---------|--------|--------|--------|--------|--------|
| | | BISON | BEAR | BADGER | BLAZER | BOUNDER | MANDRAKE | MALLOR | FIDDLER | PITTER | FISHER | FISHER | FISHER | BUDDY | TOTALS | BISON | BEAR | BADGER | BLAZER | BOUNDER | MANDRAKE | MALLOR | FIDDLER | PITTER | FISHER | FISHER | FISHER | FISHER |
| Akhubinsk/Vladimirovka | | 2 | (Prob) | | | | | | | | | | | | 81 | | | | | | | | | | | | | |
| Aleksayovka | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Anadyr/Leninka | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Anisovo Gorodishche | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Arkhangelsk/Kholm* | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Arton North | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Baranovichi* | | 20 | 13 | | | | | | | | | | | | 88 | | 24 | R | | | | | | | | | | 82 |
| Borzya | | 7 | | | | | | | | | | | | | 7 | 0 | | | | | | | | | | | | 9 |
| Belya Thackov | | 4 | 17 | | | | | | | | | | | | 21 | | | | | | | | | | | | | |
| Bobruysk* | | | 87 | (Poss) | | | | | | | | | | | 37 | | | | | | | | | | | | | |
| Briyeni* | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bykhov* | | | 72 | (Prob) | | | | | | | | | | | 72 | | 59 | | | | | | | | | | | 50 |
| Chopolovka* | | 41 | 6 | | | | | | | | | | | | 47 | | | | | | | | | | | | | |
| Dolon* | | 39 | 6 | | | | | | | | | | | | 48 | (B/D) | | | | | | | | | | | | 48 |
| Donuslav Lako | | | | | | | | | | | | | | | 14 | | | | | | | | | | | | | |
| Engels* | | 33 | 11 | | | | | | | | | | | | 44 | | | | | | | | | | | | | |
| Gomel Pripyki | | | 21 | 81 | | | | | | | | | | | 52 | | 11 | 36 | | | | | | | | | 47 | |
| Katlinin* | | | | 3 | (Prob) | | | | | | | | | | 8 | | 3 | | | | | | | | | | | 3 |
| Kaliningrad/Provoron | | | 8 | 29 | | | | | | | | | | | 37 | | | | | | | | | | | | | |
| Komsomolsk Pit 126 | | | | | | | | | | | | | | | 20 | | | | | | | | | | | | | |
| Kazan A/C Pit 22 | | | 7 | (Poss) | 14 | | | | | | | | | | 31 | | 8 | 15 | | | | | | | | | 23 | |
| Mai Yavr | | | 8 | | | | | | | | | | | | 2 | 10 | | | | | | | | | | | | |
| Molitopol | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Minsk/Machulishche* | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mirgorod | | | 14 | | | | | | | | | | | | 14 | | 26 | [2 Prob] | | | | | | | | | 20 | |
| Moscow/Ramenskoye* | | | 6 | (Poss) | 1 | | | | | | | | | | 7 | 8 | 4 | (Poss)(Poss) | 6 | 1 | (Poss)(Poss) | | | | | | 19 | |
| Mozdok* | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Nozhin | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Nikolayev/Kulbakina | | | 40 | | | | | | | | | | | | 40 | | | | | | | | | | | | | 26 |
| Okyabarskoye | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Olenegorsk | | | 14 | | | | | | | | | | | | 14 | | 10 | | | | | | | | | | | 10 |
| Orsha Southwest* | | | 27 | | | | | | | | | | | | 27 | | 58 | | | | | | | | | | | 58 |
| Ostrov Gorokhovka | | | 4 | | | | | | | | | | | | 1 | | 31 | | | | | | | | | | | 31 |
| Petropavlovsk/Yolizovo | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Poltava* | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Priluki* | | | 23 | (Prob) | | | | | | | | | | | 23 | | 26 | | | | | | | | | | | 20 |
| Romnovenka West | | | 80 | | | | | | | | | | | | 4 | | 24 | | | | | | | | | | | |
| Ryazan/Dyngilevo | | | 45 | (Prob) | | | | | | | | | | | 40 | | | | | | | | | | | | | |
| Sakd | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sarabuz | | | 18 | | | | | | | | | | | | | 18 | | | | | | | | | | | | |
| Sovromorsk | | | 2 | | | | | | | | | | | | 1 | | 2 | | | | | | | | | | | |
| Siauliai* | | | 8 | (2) | 16 | | | | | | | | | | 26 | 28 | | | | | | | | | | | | 26 |
| Soltay* | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Spassk Dalniy East | | | 31 | (Prob) | | | | | | | | | | | 31 | | 28 | | | | | | | | | | | 28 |
| Stryi* | | | 29 | | | | | | | | | | | | | 20 | | | | | | | | | | | | |
| Tartu | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ukraina* | | | 42 | (B/D) | 23 | | | | | | | | | | 22 | | 16 | | 65 | 41 | 28 | | | | | | 69 | |
| Usuriysk Vozdvizhonna* | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Zhitomir/Skomorokhi* | | | | | | | | | | | | | | | | | | | 1 | | | | | | | | | |
| TOTALS | | 41 | 109 | 590 | 93 | 1 | 14 | 38 | 4 | 2 | 900 | 40 | 4 | 1 | 384 | 68 | 1 | | | | | | | | | 571 | | |
| | | 44 | | | | | | | | | | | | | | | | | | | | | | | | | | |

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| Base | Last Effective Coverage | Previous Submarine Count | | | | | | | | | | Observed This Mission | | | | | | | | | | | | | | |
|-------------------------------|-------------------------|--------------------------|---------------|--------------|--------------------|--------------|-------------------|--------------|-------------|-------------|-------------|----------------------------|------------------|---------------|---------------|--------------|--------------------|-------------------|-------------------|-------------|-------------|-------------|-------------|----------------------------|--------|--|
| | | SSBN, H-class | SSGN, E-class | SSB, G-class | SSB, Z-conversions | SSG, J-class | SSG, W-Londgin | SSN, N-class | SS, F-class | SS, Z-class | SS, R-class | OSS (SHCN, N, L-III, etc.) | TOTALS | SSBN, H-class | SSGN, E-class | SSB, G-class | SSB, Z-conversions | SSG, J-class | SSN, N-class | SS, F-class | SS, Z-class | SS, R-class | SS, W-class | OSS (SHCN, N, L-III, etc.) | TOTALS | |
| Balaklava | | | | | | | | | | | | 5 | 5 | | | | | | | | | | | | | |
| Dunay | | 1 | | | | | | | | | | (Medium) | | | | | | | | | | | | | | |
| Khronstadt | | | | | | | | | | | | 9 | 9 | | | | | | | | | | | | | |
| Komsomolsk | | 1 | | | | | | | | | | (1-Poss) | | | | | | | | | | | | | | |
| Liepaya | | | | | | | | | | | | 2 F/Z (Prob) | 6 W/R (Prob) | 8 | | | | | | | | | | | | |
| Litsa Bay | 4 | 2 | | | | 4 | | | | | | 10 | 2 Prob 1 Poss | 2 | Prob | 2 Prob | 3 Poss | 1 | 12 | | | | | | | |
| Magadan | | | | | | | | | | | | 3 (Poss) | 3 | | | | | | | | | | | | | |
| Olenya Guba | | 4 | | | | | | | | | | 7 W/R (1 Poss) | 11 | 4 Prob | | | | 3 Poss | 2 | 9 | | | | | | |
| Pechenga | | | | | | | | | | | | 7 W/R (Prob) | 7 | | | | | | 3 Poss | Medium | | | | | | |
| Petropavlovsk/ Kamchatskiy | 1 | 1 | | | | 2 F/Z | 3 | 6 (3Poss) | 13 | | | | | | | | | | | | | | | | | |
| Petrovka | 2* | | | | | | | | | | | 3 | 5 | | | | | | | | | | | | | |
| Polyarnyy | | | | | | 11 F/Z | 10 W/R (2Poss) | 21 | 1 Poss | | | | | | | | | 9 F/Z (5 Prob) | 6 | 1 Prob | 1 | 19 | | | | |
| Riga | | | | | | | 2 | 9 W/R | 11 | | | | | | | | | (4 Poss) | W/R | 1 Poss | 1 | | | | | |
| Rosia | | | | | | | | | | | | 2 | | | | | | | 4 F/Z (1 Prob) | 4 Prob | 4 | 18 | | | | |
| Sayda Guba | 3 | 1 | | | | | 1 W/R (Poss) | 2 | | | | 7 | 2 Prob | | | | | | (3 Poss) | 1 Poss | 2 | 2 | | | | |
| Sevastopol | | | | | | | | | 10 | 11 | | | | | | | | F/Z | 2 Prob | 2 | Poss | 8 | | | | |
| Severodvinsk | 4 | | | | | | | | (Poss) | 1 | 5 | | | | | | | | | | | | | | | |
| Severomorsk | | | | | | | | | | | 2 | 2 | 1 Prob | | | | | | | | | | | | | |
| Sovetskaya Gavan | | | | | | | | | | | 5 | 5 | | | | | | | | | | | | | | |
| Strelok Strait | | | | | | | | | | | 1 | 3 | | | | | | | | | | | | | | |
| Ura Guba | 1 | | | | | 1 F/Z | 1 | | | | | | | | | | | | | | | | | | | |
| Vladimir | | | | | | | | | | | | (Poss) | 1 | | | | | | | | | | | | | |
| Vladivostok | | | | | | | | | | | | 3 | | | | | | | | | | | | | | |
| TOTALS | | 4 | 12 | 8 | 1 | 4 | 2 | 15 | 47 | 149 | 2 | 5 | 12 | | | | | 5 | 3 | 14 | 22 | 2 | 106 | | | |
| *E-1 Class | | | | | | 16 F/Z | 40 W/R | | | | | | | | | | | 15 | 26 | | | | | | | |

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Missiles

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MISSILES

[REDACTED] YOSHKAR-OLO ICBM COMPLEX UR 5634N 04803E

THE COMPLEX WAS COVERED BY GOOD QUALITY,
CLEAR PHOTOGRAPHY.

A PROBABLE COMMUNICATIONS-ASSOCIATED FACILITY IS
NEWLY IDENTIFIED ON THE NORTH SIDE OF THE COMPLEX
MAIN ROAD APPROXIMATELY 2 NM NORTH OF THE
TRANSFER POINT. IT CONTAINS A SUPPORT AREA WITH
ONE LARGE AND SEVERAL SMALL BUILDINGS, A
PROBABLE CONTROL BUILDING UNDER CONSTRUCTION
AT THE TERMINUS OF THE ACCESS ROAD, AND A
PROBABLE FISHBONE ANTENNA ARRAY IN A CLEARING SE
OF THE SUPPORT AREA.

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CONSTRUCTION ACTIVITY OF A SUPPORT-TYPE FACILITY
IS OBSERVED ON THE SOUTH SIDE OF THE COMPLEX
MAIN ROAD BETWEEN LAUNCH AREAS C (SITE 3) AND
D (SITE 4). THIS ACTIVITY, NEW SINCE MISSION [REDACTED]
CONTAINS 3 LARGE BUILDINGS, 6 SMALL BUILDINGS,
AND 6 OTHER BUILDINGS UNDER CONSTRUCTION.

25X1D

NO SIGNIFICANT CHANGE SINCE MISSION [REDACTED] AT THE
COMPLEX SUPPORT FACILITY, TRANSFER POINT, OR
LAUNCH AREAS A (SITE 1), B (SITE 2), C (SITE 3)
AND D (SITE 4). LAUNCH AREA F (SITE 6) SHOWS
NO CHANGE SINCE MISSION [REDACTED]. LAUNCH AREA E
(SITE 5) IS COMPLETE.

25X1D

NO ABM ACTIVITY IDENTIFIED WITHIN A 50-NM RADIUS.

25X1D



25X1A

[REDACTED] DROVYANAYA ICBM COMPLEX UR 5132N 11301E

THE COMPLEX SUPPORT ACTIVITY, TRANSFER POINT, LAUNCH
AREAS B (SITE 2), C (SITE 4), E (SITE 5) AND F
(SITE 6) AND THE UNIDENTIFIED AREA NEAR E ARE CLOUD

25X1

25X1

TOP SECRET

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25X1

COVERED. LAUNCH AREAS A (SITE 1) AND D (SITE 3) AND THE SITE SUPPORT AND RIM FACILITIES OF LAUNCH AREA B -- IDENTIFICATION ONLY.

25X1D NO ABM ACTIVITY OBSERVED WITHIN 50-NM RADIUS, WHICH IS 90 PERCENT CLOUD COVERED.

25X1A

KOSTROMA ICBM COMPLEX UR 5746N 04101E

25X1D COMPLEX IS COVERED ON GOOD QUALITY STEREO PHOTOGRAPHY. NO SIGNIFICANT CHANGE NOTED SINCE MISSION [REDACTED] IN THE COMPLEX SUPPORT FACILITY, THE RAIL-TO-ROAD TRANSFER POINT, THE TYPE IIB LAUNCH AREAS A (SITE 1), B (SITE 2), C (SITE 3), AND D (SITE 4), THE TYPE IID AREAS F (SITE 6), G (SITE 7), AND THE TYPE IIIA AREAS E (SITE 5) AND H (SITE 8). NO ABM ACTIVITY OBSERVED WITHIN 50-NM RADIUS.

25X1D

25X1A

TEYKOVO ICBM COMPLEX UR 5652N 04035E

THE COMPLEX IS COVERED BY GOOD QUALITY STEREO PHOTOGRAPHY EXCEPT FOR LAUNCH AREA G (SITE 7), WHICH WAS NOT COVERED, AND LAUNCH AREA E (SITE 5), WHICH WAS COVERED BY POOR QUALITY PHOTOGRAPHY. NO SIGNIFICANT CHANGES OBSERVED IN THE COMPLEX SUPPORT FACILITY, TYPE IIB LAUNCH AREAS A (SITE 1), B (SITE 2), AND C (SITE 3) OR TYPE IID LAUNCH AREAS D (SITE 4), E (SITE 5), F (SITE 6). SEVERAL BUILDINGS ARE APPARENT IMMEDIATELY EAST OF THE RAIL-TO-ROAD TRANSFER POINT. THESE BUILDINGS WERE PRESENT ON MISSION [REDACTED] BUT NOT ON MISSION

25X1D [REDACTED] A SMALL AREA OF NEW CONSTRUCTION IS OBSERVED SOUTH OF THE COMPLEX MAIN ROAD BETWEEN LAUNCH AREAS B AND D. AN ACCESS ROAD LEADS TO A SMALL GROUP OF BUILDINGS PRESENT ON MISSION [REDACTED] THE AREA HAS BEEN ENLARGED SINCE MISSION [REDACTED]

25X1D

25X1

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25X1

25X1D NO ABM ACTIVITY OBSERVED IN EASTERN HALF OF SEARCH AREA. WESTERN HALF NOT COVERED.

[REDACTED]

25X1A

[REDACTED] YEDROVO ICBM COMPLEX UR 5751N 03341E

LAUNCH AREA G (SITE 7) -- IDENTIFICATION ONLY. REMAINDER OF COMPLEX NOT COVERED.

25X1D NO ABM ACTIVITY OBSERVED IN CLOUD-FREE AREAS WITHIN 50-NM RADIUS. EASTERN HALF OF SEARCH AREA NOT COVERED.

[REDACTED]

25X1A

[REDACTED] KOZELSK ICBM COMPLEX UR 5357N 03548E

25X1D THE COMPLEX IS COVERED BY GOOD QUALITY, CLEAR PHOTOGRAPHY. NO SIGNIFICANT CHANGES SINCE MISSION [REDACTED] ARE APPARENT AT THE COMPLEX SUPPORT FACILITY, TRANSFER POINT, OR TYPE IIC LAUNCH AREAS A (SITE 3), B (SITE 2), D (SITE 4), AND TYPE IIIB LAUNCH AREA F (SITE 6). LAUNCH AREA E (SITE 5), A TYPE IIIB, IS COMPLETE WITH THE PATTERN OF THE ELECTRONICS FACILITY APPARENT. LAUNCH AREA C (SITE 1) HAS SHOWN NO CONSTRUCTION PROGRESS SINCE MISSION [REDACTED] AND IS CONSIDERED ABANDONED AND WILL BE DROPPED FROM THE ICBM OB.

25X1D

NO ABM ACTIVITY OBSERVED IN THE EASTERN HALF OF A 50-NM RADIUS. WESTERN HALF OF SEARCH AREA NOT COVERED.

25X1D

[REDACTED]

25X1

TOP SECRET

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25X1

25X1D

25X1A

[REDACTED] OLOVYANNAYA ICBM COMPLEX UR 5048N 11550E

THE COMPLEX IS OBSERVED THROUGH SCATTERED CLOUDS AND HAZE. THE COMPLEX SUPPORT FACILITY, TRANSFER POINT, AND TYPE IIIA LAUNCH AREAS A (SITE 1) AND C (SITE 3) ARE IDENTIFICATION ONLY. LAUNCH AREA B (SITE 2) IS CLOUD COVERED.

NO ABM ACTIVITY OBSERVED IN THE CLOUD-FREE PORTIONS WITHIN A 50-NM RADIUS.

25X1D

25X1A

[REDACTED] SLEDYUKI MRBM LAUNCH SITE UR 5341N 03020E

25X1D

NO APPARENT CHANGE SINCE MISSION [REDACTED]

NO ADDITIONAL IRBM/MRBM FACILITIES OBSERVED WITHIN 25-NM RADIUS. AREA CAN BE NEGATED.

25X1A

[REDACTED] BORKHOV MRBM LAUNCH SITE I UR 5218N 03043E

NO HARD IRBM SITE OBSERVED WITHIN A 25-NM RADIUS ON CLEAR PHOTOGRAPHY. AREA CAN BE NEGATED.

25X1A

[REDACTED] KARA-BABAU IRBM LAUNCH SITE 2 UR 4431N 07758E

25X1D

NO APPARENT CHANGE SINCE MISSION [REDACTED] TWO OF THE 3 SILOS ARE OPEN.

25X1D

25X1

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25X1

[REDACTED]

25X1

25X1A

[REDACTED] ZHITOMIR MRBM LAUNCH SITE 1 UR 5004N 02816E

NO NEW SSM ACTIVITY OBSERVED IN CLOUD-FREE PORTIONS
OF SEARCH AREA. ONLY WESTERN HALF OF SEARCH AREA
COVERED. HEAVY CLOUDS PRECLUDE NEGATION.

25X1D

[REDACTED]

25X1A

[REDACTED] KOZHANOVICHI MRBM LAUNCH SITE 1 UR 5210N 02751E

NO NEW SSM ACTIVITY OBSERVED WITHIN 25-NM RADIUS.
AREA CANNOT BE NEGATED.

25X1D

[REDACTED]

25X1A

[REDACTED] KURDZHIPSKAYA MRBM LAUNCH SITE UR 4431N 04000E

NO ADDITIONAL MRBM LAUNCH SITE OBSERVED WITHIN A 25-NM
RADIUS.

AREA CAN BE NEGATED.

25X1D

[REDACTED]

25X1A

[REDACTED] RUDNYA ZLOTINSKAYA MRBM LAUNCH SITE UR 5104N 02807E

25X1D

NO APPARENT CHANGE IN FACILITIES SINCE MISSION [REDACTED]

[REDACTED]

25X1A

[REDACTED] SOKAL MRBM LAUNCH SITE 3 UR 5020N 02426E

IDENTIFICATION ONLY.

25X1D

[REDACTED]

25X1A

[REDACTED] REDKINO MRBM LAUNCH SITE UR 5724N 02826E

25X9

THE LAUNCH SITE IS COMPLETE AND A [REDACTED]
FACILITY IS UNDER CONSTRUCTION NEAR THE SITE
SUPPORT FACILITY.

25X1

~~TOP SECRET~~

25X1

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25X1

25X1D

25X1A

[REDACTED] SHIRVANSKAYA MRBM LAUNCH SITE UR 4425N 03954E

NO NUCLEAR WARHEAD FACILITY OR ELECTRONICS FACILITY OBSERVED IN ASSOCIATION WITH THE HARD SITE. A COMMUNICATIONS FACILITY IS UNDER CONSTRUCTION A FEW MILES EAST OF THE TULSKAYA FIXED FIELD SITE. NO ADDITIONAL MRBM LAUNCH SITES OBSERVED

25X1D WITHIN A 25-NM RADIUS. AREA CAN BE NEGATED.

25X1A

[REDACTED] KARA-BABAU IRBM LAUNCH SITE 3 UR 4431N 07743E

LAUNCH SITE 3 IS COMPLETE.

25X1D

25X1D NO APPARENT CHANGE SINCE MISSION [REDACTED]

25X1A

[REDACTED] KAPUSTIN YAR/VLADIMIROVKA MSL TEST CTR UR 4835N 04545E

POOR QUALITY COVERAGE PERMITS IDENTIFICATION ONLY ON THE FOLLOWING PORTIONS OF THE SAM FACILITIES --
25X9 NEW ACTIVITY NW OF R&D LAUNCH AREA, SA-1
HERRINGBONE LAUNCH AREA, SAM HOUSING AND SUPPORT AREA, SAM [REDACTED] HANDLING AND CHECKOUT AREA, SAM MISSILE CHECKOUT AND STORAGE AREA, ELECTRONICS SITE, KAPUSTIN YAR AIRFIELD, SAM MARSHALLING AREA, AND SAM BASE SUPPORT COMPLEX.

25X1D

REMAINDER OF TEST CENTER IS NOT COVERED.

25X1A

[REDACTED] SARY-SHAGAN ANTIMISSILE TEST CENTER UR 4602N 07334E

PORTIONS OF THE TEST CENTER ARE OBSERVED THROUGH HEAVY TO SCATTERED CLOUDS ON GENERALLY FAIR TO GOOD QUALITY PHOTOGRAPHY. FACILITIES COVERED

25X1

~~TOP SECRET~~

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25X1

25X1

25X1

25X1D

IN WHOLE OR IN PART INCLUDE THE MAIN HOUSING COMPLEX, THE HEN HOUSE ANTENNA, THE HEN ROOST ANTENNAS, THE PRIMARY AIRFIELD AND LONG DIRT STRIP, THE SAM TRAINING CENTER, AND INSTRUMENTATION SITES 1, 2, 3, 4, 6, AND 7. NO SIGNIFICANT

25X1D

CHANGE IS NOTED AT THESE FACILITIES SINCE MISSION [REDACTED], EXCEPT AT INSTRUMENTATION SITE 2 WHERE A DARK PATTERN IS NOW VISIBLE ON THE TOP OF THE DOME-SHAPED ENVIRONMENTAL SHELTER ON THE 135-BY 125-FOOT BUILDING -- POSSIBLY INDICATING AN OPENING IN THE SHELTER. THE BUILDING TRIAD

25X1D

25X1D

AREA AT SITE 2 REMAINS UNCHANGED SINCE MISSION [REDACTED]. THE ANTENNA FACE AT THE HEN HOUSE ANTENNA REMAINS DARK IN TONE AS ON MISSION [REDACTED] CLOUDS PRECLUDE IDENTIFICATION OF ANY AIRCRAFT AT THE 16,500 FT DIRT STRIP. SAM TRAINING CENTER -- IDENTIFICATION ONLY. LAUNCH COMPLEXES A AND B AND POSSIBLE INSTRUMENTATION SITE 13 ARE NOT OBSERVED.

25X1A

[REDACTED] MOSCOW GUIDED MSL ENGINE PLT KHMKI 456 UR 5554N 03727E

PLANT 456 PLANT AND TEST AREAS -- NO APPARENT CHANGE SINCE MISSION [REDACTED]

25X1D

TEST AREA NW (POSSIBLY RELATED TO PLANT 301) -- A NEWLY IDENTIFIED THIRD VERTICAL TEST STAND POSSIBLY STILL UNDER CONSTRUCTION IS LOCATED NORTH OF THE PREVIOUSLY-IDENTIFIED TEST STANDS. THIS STAND HAS A GREATER HORIZONTAL CROSS-SECTION THAN OTHER STANDS AND A POSSIBLE CRANE IS ATOP ITS TOWER.

TEST AREA EAST (POSSIBLY RELATED TO PLANT 293) -- THE AREA CONTAINS A NEWLY IDENTIFIED PROBABLE VERTICAL TEST STAND AND SUPPORT BUILDINGS. DISCOLORATION

25X1

~~TOP SECRET~~

25X1

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25X1

25X1D OF ROAD THROUGH THE BLAST AREA MAY INDICATE TEST ACTIVITY. THE ROAD WAS ALSO DISCOLORED ON MISSION [REDACTED]

25X1D

THIS MISSION TOGETHER WITH MISSION [REDACTED] PROVIDES BEST COVERAGE TO DATE.

25X1D (ATTACHMENT 1)

25X1A

[REDACTED] MOSCOW GM PLT & EXPMT STA KALININGRAD 88 UR 5555N 03748E

25X1D CENTRAL ARTILLERY DESIGN BUREAU -- NO SIGNIFICANT CHANGE SINCE MISSION [REDACTED] EXCEPT FOR THE IDENTIFICATION OF A HIGH-BAY SECTION ON A SHOP-TYPE BUILDING.

25X1D

AREA A -- NO APPARENT CHANGE SINCE MISSION [REDACTED]

25X1D

AREA B -- NO SIGNIFICANT CHANGE SINCE MISSION [REDACTED] EXCEPT FOR THE ADDITION OF A HIGH-BAY SECTION TO A SHOP-TYPE BUILDING AND TRENCHING TO INDICATE THAT THE GROUP OF BUILDINGS AT THE SW EDGE OF AREA IS STILL UNDER CONSTRUCTION AND THAT A LARGE AMOUNT OF EXPANSION IS IN PROGRESS. POSSIBLE OPEN STORAGE OF LONG, NARROW SHIPPING CRATES, CYLINDERS, OR VEHICLES IS NOTED.

25X1D NO TEST STANDS OBSERVED ON BEST PHOTOGRAPHY TO DATE.

25X1A

[REDACTED] RYBINSK AIRCRAFT ENGINE PLANT 36 UR 5803N 03849E

NO ROCKET ENGINE TEST FACILITIES OBSERVED WITHIN 35 NM NORTH, SOUTH, OR WEST ON GOOD QUALITY PHOTOGRAPHY. AREA EAST IS NOT COVERED. NO MISSILES OR MISSILE HANDLING EQUIPMENT OBSERVED WITHIN THE PLANT AREA.

25X1D

25X1

25X1

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25X1

25X1A

TBILISI AIRFRAME PLANT 31 UR 4140N 04452E

25X1D THE RECENTLY ENLARGED BUILDING REPORTED ON MISSION [] HAS BEEN ROOFED, BUT CONSTRUCTION CONTINUES. ONE SMALL BUILDING HAS BEEN ADDED IN THE NE SECTION OF THE PLANT SINCE MISSION [] NO AIRCRAFT OR MISSILE ACTIVITY OR EQUIPMENT IDENTIFIED.

25X1D

25X1D

[] HSI-AN AIRFRAME PLANT YEN-LIANG AF CH 3439N 10915E

NO PROGRESS APPEARS TO HAVE BEEN MADE ON 2 OF 3 BUILDINGS UNDER CONSTRUCTION ON [] BUT THE BUILDING IN THE CENTER OF THE PLANT AREA WHICH HAD ONLY FOUNDATION FOOTINGS VISIBLE NOW APPEARS TO BE IN THE FINAL STAGES OF CONSTRUCTION. A TAXIWAY HAS BEEN BUILT FROM THE PLANT TO NEARBY YEN-LIAN AIRFIELD. THE PLANT IS RAIL-CONNECTED TO HSIAN 22 NM SW. IMAGE QUALITY PRECLUDES IDENTIFICATION OF AIRCRAFT OR MISSILE COMPONENTS.

25X1C

25X1D

[] KUYBYSHEV AIRCRAFT ENGINE PLT FRUNZE 24 UR 5312N 05017E

THE PLANT SHOWS SIGNIFICANT EXPANSION. A NEW LARGE ASSEMBLY/MACHINE SHOP IN THE NW CORNER OF THE PLANT HAS BEEN COMPLETED SINCE MISSION [] A NEW POSSIBLE MACHINE/WORKSHOP IS UNDER CONSTRUCTION IMMEDIATELY NE OF THE NEW ASSEMBLY/MACHINE SHOP.

25X1D

25X1D

[] KAMENSK-SHAKHTINSKIY PROB STAT TEST FAC UR 4819N 04016E

25X1D

NO APPARENT CHANGE SINCE MISSION []

THE FACILITY CANNOT BE CONFIRMED OR NEGATED DUE TO POOR IMAGE QUALITY.

25X1

25X1

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25X1
25X1

[REDACTED]

25X1D

[REDACTED]

25X1A

[REDACTED]

MAKINSK SUSPECT SSM AREA UR 5234N 07026E

NO NEW SSM ACTIVITY OBSERVED WITHIN THE CLOUD-FREE
PORTIONS OF THE 50-NM RADIUS.

25X1D

[REDACTED]

25X1A

[REDACTED]

VORONEZH SUSPECT SSM AREA UR 5139N 03911E

NO NEW SSM ACTIVITY OBSERVED IN WESTERN TWO-THIRDS
OF 50-NM SEARCH AREA. EASTERN ONE-THIRD NOT
COVERED.

25X1D

[REDACTED]

25X1A

[REDACTED]

KRASNAYA GORBATKA SUSPECT SSM AREA UR 5553N 04146E

25X1D

NO SSM-RELATED ACTIVITY OBSERVED IN CLOUD-FREE
AREAS WITHIN A 50-NM RADIUS. SEARCH AREA
APPROXIMATELY 70 PERCENT CLOUD COVERED.

25X1A

[REDACTED]

ZAKOPYTE SUSPECT SSM AREA UR 5138N 03020E

25X1D

NO NEW SSM-RELATED ACTIVITY OBSERVED WITHIN A
50-NM RADIUS.

25X1A

[REDACTED]

NOVOSTROYKA SUSPECT SSM AREA UR 5619N 03803E

NO NEW SSM ACTIVITY OBSERVED IN WESTERN TWO-THIRDS
OF 50 NM-RADIUS. EASTERN ONE-THIRD NOT COVERED.

25X1D

[REDACTED]

25X1

TOP SECRET

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25X1

25X1A

[REDACTED] ROMNY SUSPECT SSM AREA UR 5044N 03328E

NO SSM-RELATED ACTIVITY WITHIN A 50-NM RADIUS WEST OF ROMNY. MAJOR PORTION OF EASTERN HALF OF SEARCH AREA NOT COVERED.

AN AREA OF NEW CONSTRUCTION, CONTAINING SEVERAL BUILDINGS AND SERVED BY A RAIL SPUR UNDER CONSTRUCTION, IS IDENTIFIED. AN EXCAVATION WITH NO DEFINITE PATTERN IS LOCATED ABOUT ONE MILE NORTH OF THE BUILDINGS AND 45 NM SSW OF ROMNY AT 50-02N 033-07E. THERE WAS NO ACTIVITY IN THIS AREA ON MISSION [REDACTED]

25X1D

25X1A

[REDACTED] ALEYSK SUSPECT SSM AREA UR 5229N 08247E

ONLY NORTHERN HALF OF SEARCH AREA COVERED. AREA IS 60 PERCENT CLOUD-COVERED. NO SSM ACTIVITY OBSERVED.

25X1D

25X1A

[REDACTED] VLADIMIR SUBMARINE BASE UR 4355N 13528E

HAZE, CLOUDS, AND POOR IMAGE QUALITY PRECLUDE DETAILED INTERPRETATION.

VESSELS -- NONE OBSERVED.

25X1D

25X1A

[REDACTED] VLADIVOSTOK NAVAL BASE AND SHIPYARD 202 UR 4306N 13156E

HAZE, OBLIQUITY AND POOR IMAGE QUALITY PRECLUDE IDENTIFICATION OF ANY MISSILE-RELATED ACTIVITY AT THE SHIPYARD.

APPROXIMATELY 100 UNIDENTIFIED VESSELS INCLUDING ONE POSSIBLE CL ARE OBSERVED IN GOLDEN HORN BAY.
APPROXIMATELY 25 OTHER UNIDENTIFIED VESSELS ARE OBSERVED IN ADJACENT WATERS, INCLUDING ONE POSSIBLE

25X1

25X1

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25X1

SS AT ULIS BAY.

NO NAVAL GM STORAGE, SUBMARINE BASES, OR NUCLEAR WEAPONS STORAGE AREAS OBSERVED IN SMALL PORTION

25X1D OF SEARCH AREA VISIBLE.

25X1A

MOSCOW SUSPECT ABM AREA UR 5545N 03737E

ALL SAM INSTALLATIONS IN THE MOSCOW DEFENSE SYSTEM ARE COVERED BY GOOD QUALITY CLOUD-FREE PHOTOGRAPHY. THE EASTERNMOST EDGE OF THE SEARCH AREA (APPROXIMATELY 15 PERCENT) WAS NOT COVERED. NO SARY SHAGAN OR LENINGRAD-TYPE ABM INSTALLATIONS ARE OBSERVED IN THE VISIBLE PORTION OF THE SEARCH AREA, WITH THE EXCEPTION OF THOSE REPORTED SEPARATELY.

APPROXIMATELY 75 PERCENT OF THE HERRINGBONE LAUNCH SITES SHOW SIGNS OF ACTIVITY -- RANGING FROM VERY MINOR EARTH SCARS IN MANY CASES TO SUBSTANTIAL GROUND SCARRING AT SEVERAL SITES.

25X1D

25X1A

MOSCOW SAM SITE E05-1 UR 5614N 03835E

AN UNIDENTIFIED STRUCTURE IS VISIBLE ADJACENT AND PARALLEL TO THE END OF THE LARGE TRIAD BUILDING OPPOSITE THE 2 SMALLER BUILDINGS. THIS STRUCTURE IS SIMILAR IN APPEARANCE AND LOCATION TO STRUCTURES SEEN AT MOSCOW SITES E15-1, E24-1, E33-1, AND SITE 13, SARY SHAGAN ANTIMISSILE TEST CENTER.

AN UNIDENTIFIED RAISED OBJECT IS PRESENT ON THE REAR PORTION OF THE ROOF OF THE LARGE TRIAD BUILDING. LINEAR UNIDENTIFIED ACTIVITY IS PRESENT ON THE ROOF OF THE NW SMALL TRIAD BUILDING. NO RAISED OBJECTS ARE VISIBLE ON THE ROOF OF THE SE SMALL TRIAD BUILDING.

25X1D

25X1

TOP SECRET

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25X1

25X1A

[REDACTED] MOSCOW SAM SITE E33-1 UR 5620N 03648E [REDACTED]

ANNULAR STRUCTURES ARE NOW VISIBLE ON THE ROOF OF EACH OF THE 3 BUILDINGS IN THE TRIAD.

25X1D THE STRUCTURE ON THE LARGE BUILDING APPEARS TO BE NOTICEABLY HIGHER THAN THOSE ON THE SMALLER BUILDINGS. THE PROBABLE PASSAGeway OR CONDUIT REPORTED TO THE REAR OF THE LARGE BUILDING ON MISSION [REDACTED] IS NOT VISIBLE ON THIS MISSION.

25X1D

A LARGE GROUND SCAR ON THE NE SIDE OF THE HERRINGBONE REPORTED ON MISSION [REDACTED] NOW CONTAINS 2 PARALLEL WALLS OR REVETMENTS.

25X1D ACTIVITY CONTINUES AT ANOTHER GROUND SCAR IMMEDIATELY OUTSIDE THE TRIAD SECURITY FENCING.

25X1A

[REDACTED] MOSCOW SAM SITE E15-1 UR 5509N 03822E [REDACTED]

25X1D NO SIGNIFICANT CHANGE DISCERNIBLE IN THE TRIAD FACILITIES SINCE [REDACTED] UNIDENTIFIED

25X1D STRUCTURE TO REAR OF LARGE BUILDING IN TRIAD OBSERVED ON [REDACTED] CAN NOT BE DETECTED. IN

25X1D THE SE QUADRANT OF THE HERRINGBONE ARE 2 LINEAR EXCAVATIONS LOCATED AT ADJACENT SA-1 LAUNCH POSITIONS. THE EXCAVATIONS ARE AT A 45 DEGREE ANGLE TO THE LAUNCHER SERVICE ROAD. ONE WAS

25X1D PRESENT ON [REDACTED] THE OTHER HAS APPARENTLY BEEN DUG SINCE. SEVERAL OTHER POINTS OF UNIDENTIFIED SCARRING ACTIVITY ARE OBSERVED ELSEWHERE ON THE HERRINGBONE. A PROBABLE DRIVE-THROUGH STRUCTURE OVER ONE LAUNCH POSITION AT THIS SITE IDENTIFIED

ON [REDACTED] IS STILL PRESENT.

25X1D

[REDACTED] BONUS 1. YAZLOVCHIK FIXED FIELD MRBM LAUNCH SITE UR 5005N 02502E [REDACTED]

A FIXED FIELD MRBM LAUNCH SITE HAS BEEN NEWLY IDENTIFIED IN A WOODED AREA 6.3 NM WEST OF BRODY MRBM LAUNCH SITE 1 AND 3.7 NM SW OF YAZLOVCHIK. THERE WAS NO SITE AT THIS LOCATION ON MISSION [REDACTED] IT

25X1D

25X1

25X1

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25X1

25X1D

CONSISTS OF 4 PAD-LIKE CLEARINGS. ONE CLEARING WAS PRESENT ON MISSION [REDACTED] WITH THE INITIAL SCARRING FOR ANOTHER. THE CLEARINGS, ARRANGED IN A RECTANGULAR PATTERN, HAVE AN AZIMUTH SIMILAR TO THAT OF THE BRODY MRBM LAUNCH SITES. NO ACTIVITY IS VISIBLE IN THE AREA.

25X1D

BONUS 2. SHCHITNO FIXED FIELD MRBM LAUNCH SITE UR 5243N 02458E

A NEWLY IDENTIFIED FIXED FIELD TYPE MRBM IS LOCATED IN A WOODED AREA 11 NM SE OF RUZHANY MRBM LAUNCH SITE 1 AND 4 NM SSE OF SHCHITNO AND CONSISTS OF 4 INTERCONNECTED PAD-LIKE CLEARINGS ORIENTED LIKE ONE OF THE KRUZHANY MRBM LAUNCH SITES. NO ACTIVITY IS APPARENT AT THE INSTALLATION.

25X1D

BONUS 3. VASILISHKI FIXED FIELD MRBM LAUNCH SITE UR 5344N 02456E

A FIXED FIELD TYPE MRBM LAUNCH SITE HAS BEEN NEWLY IDENTIFIED IN A WOODED AREA 14.5 NM WSW OF LIDA MRBM LAUNCH SITE 1 AND 4 NM SE OF VASILISHKI. IT CONSISTS OF 4 INTERCONNECTED PAD-LIKE CLEARINGS ORIENTED SIMILAR TO THOSE OF THE LIDA MRBM SITES. AN OBJECT IS DISCERNIBLE IN EACH OF THE CLEARINGS. FOUR PROBABLE READY TENTS OR BUILDINGS ARE SITUATED IN A LARGE CLEARING ALONG THE ACCESS ROAD. AN OCCUPIED TENT AREA IS IMMEDIATELY NORTH OF THE SITE.

25X1D

BONUS 4. KYAKHTA SAM SITE UR 5020N 10626E

NEWLY IDENTIFIED COMPLETED SA-2 SAM SITE IS LOCATED 1.5 NM SOUTH OF KYAKHTA AT 50-20-10N 106-26-50E.

25X1D

25X1

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**Air
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25X1

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25X1

25X1A

AIR FACILITIES

[REDACTED] MIRGOROD AIRFIELD UR 4956N 03339E

AIRCRAFT -- 2 PROBABLE AND ONE POSSIBLE BLINDER, 26
BADGER, AND ONE SMALL STRAIGHT-WING ON HARDSTANDS,
AND ONE MEDIUM STRAIGHT-WING ON GRASS NEAR SW LOOP
TAXIWAY.

25X1D

[REDACTED]

25X1A

[REDACTED] OSTROV/GOROKHOVKA AIRFIELD UR 5718N 02826E

25X1D

NO APPARENT CHANGE SINCE MISSION [REDACTED]

AIRCRAFT -- 31 BADGER, 2 MEDIUM STRAIGHT-WING, AND 2
MEDIUM PROBABLE TWIN ENGINE STRAIGHT-WING ON
HARDSTANDS ALONG TAXIWAY.

25X1D

[REDACTED]
[REDACTED] WU-KUNG AIRFIELD CH 3417N 10815E

CONSTRUCTION AT THE AIRCRAFT PLANT SOUTH OF THE
AIRFIELD CONTINUES. THE PLANT APPEARS TO BE NEARING
COMPLETION.

25X1D

AIRCRAFT -- 13 BULL AND ONE BADGER.

[REDACTED]

25X6

[REDACTED]

25X1

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**Nuclear
Energy**

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25X2

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**Naval
Activity/
Ports**

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TOP SECRET

25X1

25X1A

NAVAL ACTIVITY/PORTS

[REDACTED] NIKOLAYEV SHIPYARD NOSENKO 444 UR 4657N 03159E

25X1D

NO APPARENT CHANGE IN FACILITIES SINCE MISSION [REDACTED]

VESSELS UNDER CONSTRUCTION ON THE BUILDING WAYS
INCLUDE ONE 535 BY 90 FT, TWO 340 BY 50 FT,
ONE 390 BY 70 FT, AND ONE 490 BY 80 FT. SEVEN
VESSELS ARE LOCATED IN THE BASIN, INCLUDING
TWO 310 BY 45 FT, TWO 440 BY 70 FT, AND THREE
270 BY 40 FT. ALL DIMENSIONS ARE APPROXIMATE.

25X1D
NONE OF THESE APPEAR TO BE NAVAL VESSELS.
NO SUBMARINE FACILITIES OBSERVED.

[REDACTED]

25X1A

[REDACTED] NIKOLAYEV SHPYD NORTHERN 61 KOMMUNA 445 UR 4659N 03201E

25X1D

NO APPARENT CHANGE IN FACILITIES SINCE
MISSION [REDACTED]

25X1D
VESSELS -- ONE PROBABLE FLOATING DRYDOCK.

[REDACTED]

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**Electronics/
Communications**

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25X1
25X1

25X1A

ELECTRONICS/COMMUNICATIONS

[REDACTED] YU-MEN, SUSPECT INSTRUMENTATION SITE CH 4017N 09712E

NO INSTRUMENTATION FACILITIES OBSERVED WITHIN
25-NM RADIUS.

25X1D

[REDACTED]

25X1A

[REDACTED] MOSCOW, SUSPECT AMM PHASED ARRAY RADAR UR 5529N 03641E

CONSTRUCTION CONTINUES ON THE INVERTED V FRAME.
THE CONSTRUCTION CRANE IS NOW POSITIONED IN FRONT
AND AT THE BASE OF THE NNW FACE. CONSTRUCTION
MATERIALS ARE STACKED IN OPEN STORAGE IN CLEARED
AREAS FRONTING THE NNW AND SSE FACES. A LIGHT
COLORED TOPPING IS BEING APPLIED IN RECTANGULAR
PATCHES TO THE PLATFORM ROOF AT ITS WSW END AND
ADDITIONAL BLACK TOPPING IS BEING APPLIED TO THE
ROOF OF THE CONTROL BUILDING. A POSSIBLE
ENTRANCE WHICH APPEARED AS A FOUNDATION ON
MISSION [REDACTED] IS BEING ADDED AT THE WSW END AND
ON THE NORTH SIDE OF THE CONTROL BUILDING. IT
IS NOW CONSTRUCTED TO ROOF HEIGHT. AN ADDITIONAL
RECTANGULAR SUPPORT BUILDING HAS BEEN ADDED IN
THE STORAGE YARD.

25X1D

THE SUSPECT AMM PHASED ARRAY APPARENTLY WILL
HAVE AN INDENTED FACE ON ITS NNW SIDE AND PROBABLY
THE SSE SIDE. ADDITIONAL FRAMING MEMBERS HAVE
BEEN ADDED AT BOTH ENDS OF THE ARRAY AND ACROSS
THE TOP MAKING THE FACE OF THE ARRAY INSET.
THE SSE FACE OF THE ANTENNA WILL APPARENTLY BE
IDENTICAL TO THE NNW.

NO SIGNIFICANT CHANGES ARE OBSERVED IN THE SUPPORT
AREAS EXCEPT FOR ADDITIONAL BLACK-TOPPING ON THE
ROOFS OF SOME BUILDINGS IN OPERATIONAL AREA B.

25X1D

[REDACTED]

BONUS 1. TA-TUNG VLF ANTENNA CH 3957N 11316E

A NEWLY IDENTIFIED LARGE RECTANGULAR VLF ANTENNA IS

25X1

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25X1

25X1D

LOCATED 8 NM SOUTH OF TA-TUNG.

THE ANTENNA IS NEARLY IDENTICAL TO THE VLF ANTENNA
WEST OF KHABAROVSK. IT APPEARS COMPLETE AND IS
PROBABLY OPERATIONAL. THIS INSTALLATION WAS
REPORTED ON MISSION [REDACTED] AS YAO-CHUANG AREA,
UNIDENTIFIED INSTALLATION.

25X1D

(ATTACHMENT 4)

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**Military
Activity**

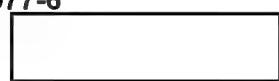
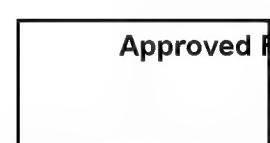
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25X1
25X1



25X1A

MILITARY ACTIVITY



MAN-CHOU-LI MILITARY ACTIVITY CH 4935N 11726E

NO CHANGE OBSERVED IN AREA 3 OR IN CLOUD-FREE PORTIONS OF AREAS 1 AND 2. NO SIGNIFICANT NEW ACTIVITY NOTED IN POSSIBLE BARRACKS CONSTRUCTION AREA ON SOVIET SIDE OF THE BORDER.

25X1D



25X1

**Other
Activity**

25X1

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25X1

25X1A

OTHER ACTIVITY

[REDACTED] HSIAO-CHIA-CHI NATL DEF LINE CONSTR CH 4713N 13343E

ONLY EASTERN PORTION OF SEARCH AREA COVERED.
NO MILITARY ACTIVITY NOTED IN CLOUD-FREE AREAS.

25X1D

25X1D

4

25X1

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25X1

INDEX OF COMOR TARGETS

THIS SECTION CONTAINS A COMPOSITE LIST, BY TARGET NUMBER, OF ALL COMOR TARGETS REVIEWED DURING THE SCAN OF MISSION 1007-1. THE ROMAN NUMERAL UNDER THE OAK COLUMN INDICATES THE PART OF OAK 1007-1 IN WHICH THE TARGET WAS REPORTED.

25X1A

| <u>COMOR</u> | <u>INSTALLATION NAME</u> | <u>CTY COORDINATES OAK</u> |
|--------------|--|----------------------------|
| | YURYA ICBM COMPLEX | UR 5903N 04919E I |
| | TYURATAM MISSILE TEST CENTER | UR 4550N 06318E I |
| | YOSHKAR-OLA ICBM COMPLEX | UR 5634N 04803E II |
| | SVOBODNYY ICBM COMPLEX | UR 5146N 12807E I |
| | DROVYANAYA ICBM COMPLEX | UR 5132N 11301E II |
| | KOSTROMA ICBM COMPLEX | UR 5746N 04101E II |
| | SHADRINSK ICBM COMPLEX | UR 5608N 06340E I |
| | TEYKOVO ICBM COMPLEX | UR 5652N 04035E II |
| | TYUMEN ICBM COMPLEX | UR 5652N 06553E I |
| | YEDROVO ICBM COMPLEX | UR 5751N 03341E II |
| | NOVOSIBIRSK ICBM COMPLEX | UR 5516N 08257E I |
| | KOZELSK ICBM COMPLEX | UR 5357N 03548E II |
| | OLOVYANNAYA ICBM COMPLEX | UR 5048N 11550E II |
| | MAZANKA MRBM LAUNCH SITE | UR 4454N 03420E I |
| | SLEDYUKI MRBM LAUNCH SITE | UR 5341N 03020E II |
| | BORKHOV MRBM LAUNCH SITE I | UR 5218N 03043E II |
| | GRESK MRBM LAUNCH SITE 1 | UR 5314N 02742E I |
| | KARA-BABAU IRBM LAUNCH SITE 2 | UR 4431N 07758E II |
| | ZHITOMIR MRBM LAUNCH SITE 1 | UR 5004N 02816E II |
| | KOZHANOVICHI MRBM LAUNCH SITE 1 | UR 5210N 02751E II |
| | URECHYE MRBM LAUNCH SITE | UR 5311N 02758E I |
| | KURDZHIPSAYA MRBM LAUNCH SITE | UR 4431N 04000E II |
| | SMORGON IRBM LAUNCH SITE 2 | UR 5426N 02618E I |
| | RUDNYA ZLOTINSKAYA MRBM LAUNCH SITE | UR 5104N 02807E II |
| | SOKAL MRBM LAUNCH SITE 3 | UR 5020N 02426E II |
| | REDKINO MRBM LAUNCH SITE | UR 5724N 02826E II |
| | SHIRVANSKAYA MRBM LAUNCH SITE | UR 4425N 03954E II |
| | SEMEONOVA IRBM LAUNCH SITE 2 | UR 4753N 03057E I |
| | VAINODE IRBM LAUNCH SITE | UR 5628N 02150E I |
| | KARA-BABAU IRBM LAUNCH SITE 3 | UR 4431N 07743E II |
| | ACHKHLOY-MARTAN MRBM LAUNCH SITE | UR 4310N 04511E I |
| | POSTAVY MRBM LAUNCH SITE 2 | UR 5506N 02700E I |
| | SOVETSKAYA GAVAN POSS MRBM LAUNCH SITE | UR 4904N 14007E I |
| | KAPUSTIN YAR/VLADIMIROVKA MSL TEST CTR | UR 4835N 04545E II |
| | SARY-SHAGAN ANTIMISSILE TEST CENTER | UR 4602N 07334E II |

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| | | | |
|--|----------|--------|----|
| SHUANG-CHENG-TZU MISSILE TEST CENTER | CH 4107N | 10020E | I |
| SHUANG-CHENG-TZU 350 NM IMPACT AREA | CH 4024N | 09225E | I |
| SHUANG-CHENG-TZU 650 NM IMPACT AREA | CH 4041N | 08600E | I |
| MOSCOW GUIDED MSL ENGINE PLT KHMKI 456 | UR 5554N | 03727E | II |
| MOSCOW GM PLT & EXPMT STA KALININGRAD 88 | UR 5555N | 03748E | II |
| ZAGORSK ROCKET TEST FACILITY | UR 5627N | 03812E | I |
| KURUMOCH ROCKET ENGINE TEST FACILITY | UR 5331N | 04949E | I |
| KUYBYSHEV AIRFRAME PLANT STALIN 1 | UR 5313N | 05018E | I |
| VORONEZH ROCKET TEST FACILITY | UR 5134N | 03908E | I |
| KAZAN AIRCRAFT ENGINE PLANT 16 | UR 5551N | 04907E | I |
| RYBINSK AIRCRAFT ENGINE PLANT 36 | UR 5803N | 03849E | II |
| TBILISI AIRFRAME PLANT 31 | UR 4140N | 04452E | II |
| HSI-AN AIRFRAME PLANT YEN-LIANG AF | CH 3439N | 10915E | II |
| KUYBYSHEV AIRCRAFT ENGINE PLT FRUNZE 24 | UR 5312N | 05017E | II |
| KAMENSK-SHAKHTINSKIY PROB STAT TEST FAC | UR 4819N | 04016E | II |
| KOSZALIN SUSPECT SAM AREA | PO 5410N | 01618E | I |
| DOPIEWO SUSPECT SAM AREA | PO 5220N | 01640E | I |
| BIEDRUSKO SUSPECT SAM AREA | PO 5233N | 01657E | I |
| MAKINSK SUSPECT SSM AREA | UR 5234N | 07026E | II |
| VORONEZH SUSPECT SSM AREA | UR 5139N | 03911E | II |
| KRASNAYA GORBATKA SUSPECT SSM AREA | UR 5553N | 04146E | II |
| ZAKOPYTE SUSPECT SSM AREA | UR 5138N | 03020E | II |
| NOVOSTROYKA SUSPECT SSM AREA | UR 5619N | 03803E | II |
| ROMNY SUSPECT SSM AREA | UR 5044N | 03328E | II |
| ALEYSK SUSPECT SSM AREA | UR 5229N | 08247E | II |
| SEVEROMORSK SUSPECT NAVAL MSL STORAGE | UR 6906N | 03328E | I |
| SAYDA-GUBA SUBMARINE BASE | UR 6915N | 03321E | I |
| OLENYA GUBA SUBMARINE BASE | UR 6913N | 03323E | I |
| POLYARNYY NAVAL BASE | UR 6912N | 03328E | I |
| LITSA GUBA SUBMARINE BASE | UR 6926N | 03224E | I |
| VLADIMIR SUBMARINE BASE | UR 4355N | 13528E | II |
| ROSTA NAVAL BASE & SHIPYARD SEVMORPUT | UR 6902N | 03304E | I |
| VLADIVOSTOK NAVAL BASE AND SHIPYARD 202 | UR 4306N | 13156E | II |
| URA GUBA NAVAL BASE | UR 6920N | 03249E | I |
| PALA GUBA NAVAL BASE & SHIP REPAIR YARD | UR 6912N | 03326E | I |
| SOVETSKAYA GAVAN NVL BASE & SHIPYARD 263 | UR 4858N | 14017E | I |
| MOSCOW SUSPECT ABM AREA | UR 5545N | 03737E | II |
| ANTIPINSKOYE SAM ACTIVITY | UR 5254N | 11332E | I |
| BRATSK, SUSPECT ABM AREA | UR 5654N | 10030E | I |
| ASTRAKHAN POSSIBLE ABM RADAR | UR 4620N | 04801E | I |
| MOSCOW SAM SITE E05-1 | UR 5614N | 03835E | II |
| MOSCOW SAM SITE E33-1 | UR 5620N | 03648E | II |
| MOSCOW SAM SITE E24-1 | UR 5521N | 03629E | I |
| MOSCOW SAM SITE E15-1 | UR 5509N | 03822E | II |
| DOLON AIRFIELD | UR 5032N | 07912E | I |
| SIAULIAI AIRFIELD | UR 5553N | 02323E | I |

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|--|-----------------|----|
| UKRAINA AIRFIELD | UR 5110N 12826E | I |
| BORZYA AIRFIELD NORTHWEST | UR 5024N 11623E | I |
| BARANOVICHI AIRFIELD | UR 5306N 02603E | I |
| MINSK/MACHULISHCHE AIRFIELD | UR 5347N 02734E | I |
| OLENEGORSK AIRFIELD | UR 6809N 03327E | I |
| BYKHOV AIRFIELD | UR 5331N 03012E | I |
| MOZDOK AIRFIELD | UR 4347N 04436E | I |
| PRILUKI AIRFIELD | UR 5034N 03219E | I |
| ORSHA AIRFIELD SOUTHWEST | UR 5426N 03018E | I |
| RYAZAN/DYAGILEVO AIRFIELD | UR 5439N 03935E | I |
| NEZHIN AIRFIELD | UR 5105N 03152E | I |
| GOMEL/PRIBYTKI AIRFIELD | UR 5218N 03110E | I |
| ALEKSEYEVKA AIRFIELD | UR 4915N 14014E | I |
| MIRGOROD AIRFIELD | UR 4956N 03339E | II |
| USSURIYSK/VOZDVIZHENKA AIRFIELD | UR 4355N 13156E | I |
| KALININ AIRFIELD | UR 5649N 03545E | I |
| SOLTSY AIRFIELD | UR 5808N 03020E | I |
| ARTEM AIRFIELD NORTH | UR 4323N 13209E | I |
| OSTROV/GOROKHOVKA AIRFIELD | UR 5718N 02826E | II |
| KAZAN AIRFRAME PLANT GORBUNOV 22 | UR 5552N 04907E | I |
| RAMENSKOYE AIRCRAFT EXPERIMENTAL PLANT | UR 5535N 03807E | I |
| KUYBYSHEV AIRFRAME PLANT LENIN 18 | UR 5313N 05019E | I |
| WU-KUNG AIRFIELD | CH 3417N 10815E | II |

25X2

| | | |
|---|-----------------|----|
| PECHENGA NAVAL BASE LINAKHAMARI | UR 6939N 03122E | I |
| LAKE ISSYK KUL HYDRODYNAMICS EXP STA N | UR 4235N 07700E | I |
| NIKOLAYEV SHIPYARD NOSENKO 444 | UR 4657N 03159E | II |
| NIKOLAYEV SHPYD NORTHERN 61 KOMMUNA 445 | UR 4659N 03201E | II |

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|--|--------------------|
| YU-MEN, SUSPECT INSTRUMENTATION SITE | CH 4017N 09712E II |
| SIMFEROPOL TRACKING & COMMO CENTER | UR 4503N 03353E I |
| MOSCOW, SUSPECT AMM PHASED ARRAY RADAR | UR 5529N 03641E II |
| MI-SHAN MILITARY AREA | CH 4532N 13152E I |
| MAN-CHOU-LI MILITARY ACTIVITY | CH 4935N 11726E II |
| HSI-AN COMPLEX | CH 3417N 10857E I |

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Attachments

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[REDACTED] ATTACHMENT 1 [REDACTED]



MOSCOW GUIDED MISSILE ENGINE PLANT KHMKI 456, USSR.

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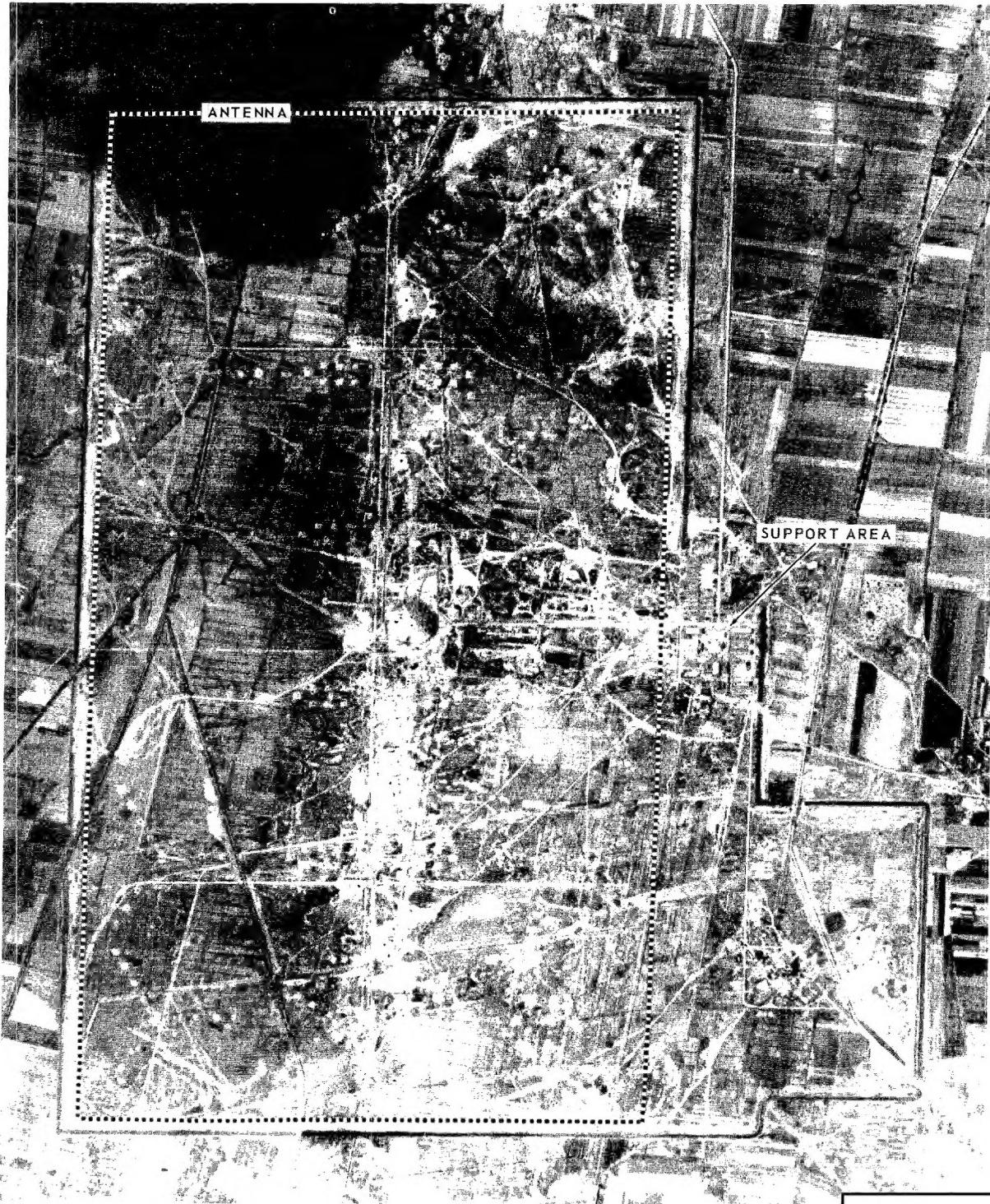
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ATTACHMENT 4



25X1

VLF COMMUNICATIONS ANTENNA, TA-TUNG AREA, CHINA.

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